



**STIC Biotechnology Systems Branch**

**RAW SEQUENCE LISTING**  
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Application Serial Number: 10/588,124  
Source: IFWP  
Date Processed by STIC: 8/10/06

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- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)**
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Revised 01/10/06



IFWP

## RAW SEQUENCE LISTING

DATE: 08/10/2006

PATENT APPLICATION: US/10/588,124

TIME: 11:01:30

Input Set : A:\L7350.0010 SEQUENCE LISTING.txt

Output Set: N:\CRF4\08102006\J588124.raw

3 <110> APPLICANT: Locomogene, Inc.,  
4 St. Marianna University School of Medicine  
5 Ohta, Tomohiko  
7 <120> TITLE OF INVENTION: CARCINOSTATIC METHOD USING BRCA1-BARD1 PATHWAY  
9 <130> FILE REFERENCE: PCT05-0001  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/588,124  
C--> 11 <141> CURRENT FILING DATE: 2006-08-01  
11 <150> PRIOR APPLICATION NUMBER: US60/541287  
12 <151> PRIOR FILING DATE: 2004-02-02  
14 <160> NUMBER OF SEQ ID NOS: 24  
16 <170> SOFTWARE: PatentIn version 3.2  
18 <210> SEQ ID NO: 1  
19 <211> LENGTH: 1333  
20 <212> TYPE: DNA  
21 <213> ORGANISM: Homo sapiens  
24 <220> FEATURE:  
25 <221> NAME/KEY: CDS  
26 <222> LOCATION: (101)..(985)  
28 <400> SEQUENCE: 1  
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31 cgtccgcctt ctctcctacc taagtgcgtg ccgccaccg atg gaa gat tcg atg 115  
32 Met Glu Asp Ser Met  
33 1 5  
35 gac atg gac atg agc ccc ctg agg ccc cag aac tat ctt ttc ggt tgt 163  
36 Asp Met Asp Met Ser Pro Leu Arg Pro Gln Asn Tyr Leu Phe Gly Cys  
37 10 15 20  
39 gaa cta aag gcc gac aaa gat tat cac ttt aag gtg gat aat gat gaa 211  
40 Glu Leu Lys Ala Asp Lys Asp Tyr His Phe Lys Val Asp Asn Asp Glu  
41 25 30 35  
43 aat gag cac cag tta tct tta aga acg gtc agt tta ggg gct ggt gca 259  
44 Asn Glu His Gln Leu Ser Leu Arg Thr Val Ser Leu Gly Ala Gly Ala  
45 40 45 50  
47 aag gat gag ttg cac att gtt gaa gca gag gca atg aat tac gaa ggc 307  
48 Lys Asp Glu Leu His Ile Val Glu Ala Glu Ala Met Asn Tyr Glu Gly  
49 55 60 65  
51 agt cca att aaa gta aca ctg gca act ttg aaa atg tct gta cag cca 355  
52 Ser Pro Ile Lys Val Thr Leu Ala Thr Leu Lys Met Ser Val Gln Pro  
53 70 75 80 85  
55 acg gtt tcc ctt ggg ggc ttt gaa ata aca cca cca gtg gtc tta agg 403  
56 Thr Val Ser Leu Gly Gly Phe Glu Ile Thr Pro Pro Val Val Leu Arg  
57 90 95 100  
59 ttg aag tgt ggt tca ggg cca gtg cat att agt gga cag cac tta gta 451  
60 Leu Lys Cys Gly Ser Gly Pro Val His Ile Ser Gly Gln His Leu Val

see P.3  
Does Not Comply  
Corrected Diskette Needed

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Input Set : A:\L7350.0010 SEQUENCE LISTING.txt

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61          105          110          115
63 gct gtg gag gaa gat gca gag tca gaa gat gaa gag gag gag gat gtg      499
64 Ala Val Glu Glu Asp Ala Glu Ser Glu Asp Glu Glu Glu Glu Asp Val
65          120          125          130
67 aaa ctc tta agt ata tct gga aag cgg tct gcc cct gga ggt ggt agc      547
68 Lys Leu Leu Ser Ile Ser Gly Lys Arg Ser Ala Pro Gly Gly Gly Ser
69          135          140          145
71 aag gtt cca cag aaa aaa gta aaa ctt gct gct gat gaa gat gat gac      595
72 Lys Val Pro Gln Lys Lys Val Lys Leu Ala Ala Asp Glu Asp Asp Asp
73 150          155          160          165
75 gat gat gat gaa gag gat gat gat gaa gat gat gat gat gat gat ttt      643
76 Asp Asp Asp Glu Glu Asp Asp Asp Glu Asp Asp Asp Asp Asp Phe
77          170          175          180
79 gat gat gag gaa gct gaa gaa aaa gcg cca gtg aag aaa tct ata cga      691
80 Asp Asp Glu Glu Ala Glu Glu Lys Ala Pro Val Lys Lys Ser Ile Arg
81          185          190          195
83 gat act cca gcc aaa aat gca caa aag tca aat cag aat gga aaa gac      739
84 Asp Thr Pro Ala Lys Asn Ala Gln Lys Ser Asn Gln Asn Gly Lys Asp
85          200          205          210
87 tca aaa cca tca tca aca cca aga tca aaa gga caa gaa tcc ttc aag      787
88 Ser Lys Pro Ser Ser Thr Pro Arg Ser Lys Gly Gln Glu Ser Phe Lys
89          215          220          225
91 aaa cag gaa aaa act cct aaa aca cca aaa gga cct agt tct gta gaa      835
92 Lys Gln Glu Lys Thr Pro Lys Thr Pro Lys Gly Pro Ser Ser Val Glu
93 230          235          240          245
95 gac att aaa gca aaa atg caa gca agt ata gaa aaa ggt ggt tct ctt      883
96 Asp Ile Lys Ala Lys Met Gln Ala Ser Ile Glu Lys Gly Gly Ser Leu
97          250          255          260
99 ccc aaa gtg gaa gcc aaa ttc atc aat tat gtg aag aat tgc ttc cgg      931
100 Pro Lys Val Glu Ala Lys Phe Ile Asn Tyr Val Lys Asn Cys Phe Arg
101          265          270          275
103 atg act gac caa gag gct att caa gat ctc tgg cag tgg agg aag tct      979
104 Met Thr Asp Gln Glu Ala Ile Gln Asp Leu Trp Gln Trp Arg Lys Ser
105          280          285          290
107 ctt taa gaaaatagtt taaacaattt gttaaaaaat tttccgtctt atttcatttc      1035
108 Leu
111 tgtaacagtt gatatctggc tgtccttttt ataatgcaga gtgagaactt tccctaccgt      1095
113 gtttgataaa tgttgtccag gttctattgc caagaatgtg ttgtccaaaa tgcctgttta      1155
115 gtttttaaaag atggaactcc accctttgct tggttttaag tatgtatgga atgttatgat      1215
117 aggacatagt agtagcggtg gtcagacatg gaaatgggtg ggagacaaaa atatacatgt      1275
119 gaaataaaac tcagtatttt aataaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa      1333
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124 <212> TYPE: PRT
125 <213> ORGANISM: Homo sapiens
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129 Met Glu Asp Ser Met Asp Met Asp Met Ser Pro Leu Arg Pro Gln Asn
130 1          5          10          15
133 Tyr Leu Phe Gly Cys Glu Leu Lys Ala Asp Lys Asp Tyr His Phe Lys

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134          20          25          30
137 Val Asp Asn Asp Glu Asn Glu His Gln Leu Ser Leu Arg Thr Val Ser
138          35          40          45
141 Leu Gly Ala Gly Ala Lys Asp Glu Leu His Ile Val Glu Ala Glu Ala
142          50          55          60
145 Met Asn Tyr Glu Gly Ser Pro Ile Lys Val Thr Leu Ala Thr Leu Lys
146 65          70          75          80
149 Met Ser Val Gln Pro Thr Val Ser Leu Gly Gly Phe Glu Ile Thr Pro
150          85          90          95
153 Pro Val Val Leu Arg Leu Lys Cys Gly Ser Gly Pro Val His Ile Ser
154          100         105         110
157 Gly Gln His Leu Val Ala Val Glu Asp Ala Glu Ser Glu Asp Glu
158          115         120         125
161 Glu Glu Glu Asp Val Lys Leu Leu Ser Ile Ser Gly Lys Arg Ser Ala
162          130         135         140
165 Pro Gly Gly Gly Ser Lys Val Pro Gln Lys Lys Val Lys Leu Ala Ala
166 145          150          155          160
169 Asp Glu Asp Asp Asp Asp Asp Asp Glu Glu Asp Asp Asp Glu Asp Asp
170          165          170          175
173 Asp Asp Asp Asp Phe Asp Asp Glu Glu Ala Glu Glu Lys Ala Pro Val
174          180          185          190
177 Lys Lys Ser Ile Arg Asp Thr Pro Ala Lys Asn Ala Gln Lys Ser Asn
178          195          200          205
181 Gln Asn Gly Lys Asp Ser Lys Pro Ser Ser Thr Pro Arg Ser Lys Gly
182          210          215          220
185 Gln Glu Ser Phe Lys Lys Gln Glu Lys Thr Pro Lys Thr Pro Lys Gly
186 225          230          235          240
189 Pro Ser Ser Val Glu Asp Ile Lys Ala Lys Met Gln Ala Ser Ile Glu
190          245          250          255
193 Lys Gly Gly Ser Leu Pro Lys Val Glu Ala Lys Phe Ile Asn Tyr Val
194          260          265          270
197 Lys Asn Cys Phe Arg Met Thr Asp Gln Glu Ala Ile Gln Asp Leu Trp
198          275          280          285
201 Gln Trp Arg Lys Ser Leu
202          290

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205 &lt;210&gt; SEQ ID NO: 3

206 &lt;211&gt; LENGTH: 12

207 &lt;212&gt; TYPE: PRT

208 &lt;213&gt; ORGANISM: Artificial

210 &lt;220&gt; FEATURE:

211 &lt;223&gt; OTHER INFORMATION: primer

213 &lt;400&gt; SEQUENCE: 3

215 Cys Val Met Ser Phe Glu Leu Leu Pro Leu Asp Ser

216 1

5

10

219 &lt;210&gt; SEQ ID NO: 4

220 &lt;211&gt; LENGTH: 8

221 &lt;212&gt; TYPE: PRT

222 &lt;213&gt; ORGANISM: Homo sapiens

224 &lt;400&gt; SEQUENCE: 4

*a primer is not an amino acid sequence*

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TIME: 11:01:30

Input Set : A:\L7350.0010 SEQUENCE LISTING.txt

Output Set: N:\CRF4\08102006\J588124.raw

226 Ala Asp Lys Asp Tyr His Phe Lys  
 227 1 5  
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 231 <211> LENGTH: 13  
 232 <212> TYPE: PRT  
 233 <213> ORGANISM: Homo sapiens  
 235 <400> SEQUENCE: 5  
 237 Val Asp Asn Asp Glu Asn Glu His Gln Leu Ser Leu Arg  
 238 1 5 10  
 241 <210> SEQ ID NO: 6  
 242 <211> LENGTH: 9  
 243 <212> TYPE: PRT  
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 246 <400> SEQUENCE: 6  
 248 Thr Val Ser Leu Gly Ala Gly Ala Lys  
 249 1 5  
 252 <210> SEQ ID NO: 7  
 253 <211> LENGTH: 7  
 254 <212> TYPE: PRT  
 255 <213> ORGANISM: Homo sapiens  
 257 <400> SEQUENCE: 7  
 259 Val Thr Leu Ala Thr Leu Lys  
 260 1 5  
 263 <210> SEQ ID NO: 8  
 264 <211> LENGTH: 13  
 265 <212> TYPE: PRT  
 266 <213> ORGANISM: Homo sapiens  
 268 <400> SEQUENCE: 8  
 270 Ser Ala Pro Gly Gly Ser Lys Val Pro Gln Lys Lys  
 271 1 5 10  
 274 <210> SEQ ID NO: 9  
 275 <211> LENGTH: 4  
 276 <212> TYPE: PRT  
 277 <213> ORGANISM: Homo sapiens  
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 281 Val Pro Gln Lys  
 282 1  
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 286 <211> LENGTH: 15  
 287 <212> TYPE: PRT  
 288 <213> ORGANISM: Homo sapiens  
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 293 1 5 10 15  
 296 <210> SEQ ID NO: 11  
 297 <211> LENGTH: 13  
 298 <212> TYPE: PRT  
 299 <213> ORGANISM: Homo sapiens  
 301 <400> SEQUENCE: 11

## RAW SEQUENCE LISTING

DATE: 08/10/2006

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TIME: 11:01:30

Input Set : A:\L7350.0010 SEQUENCE LISTING.txt

Output Set: N:\CRF4\08102006\J588124.raw

303 Asn Ala Gln Lys Ser Asn Gln Asn Gly Lys Asp Ser Lys  
304 1 5 10  
307 <210> SEQ ID NO: 12  
308 <211> LENGTH: 11  
309 <212> TYPE: PRT  
310 <213> ORGANISM: Homo sapiens  
312 <400> SEQUENCE: 12  
314 Asp Ser Lys Pro Ser Ser Thr Pro Arg Ser Lys  
315 1 5 10  
318 <210> SEQ ID NO: 13  
319 <211> LENGTH: 14  
320 <212> TYPE: PRT  
321 <213> ORGANISM: Homo sapiens  
323 <400> SEQUENCE: 13  
325 Pro Ser Ser Thr Pro Arg Ser Lys Gly Gln Glu Ser Phe Lys  
326 1 5 10  
329 <210> SEQ ID NO: 14  
330 <211> LENGTH: 6  
331 <212> TYPE: PRT  
332 <213> ORGANISM: Homo sapiens  
334 <400> SEQUENCE: 14  
336 Gly Gln Glu Ser Phe Lys  
337 1 5  
340 <210> SEQ ID NO: 15  
341 <211> LENGTH: 4  
342 <212> TYPE: PRT  
343 <213> ORGANISM: Homo sapiens  
345 <400> SEQUENCE: 15  
347 Lys Gln Glu Lys  
348 1  
351 <210> SEQ ID NO: 16  
352 <211> LENGTH: 9  
353 <212> TYPE: PRT  
354 <213> ORGANISM: Homo sapiens  
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359 1 5  
362 <210> SEQ ID NO: 17  
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364 <212> TYPE: PRT  
365 <213> ORGANISM: Homo sapiens  
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373 <210> SEQ ID NO: 18  
374 <211> LENGTH: 10  
375 <212> TYPE: PRT  
376 <213> ORGANISM: Homo sapiens  
378 <400> SEQUENCE: 18

**VERIFICATION SUMMARY**

**PATENT APPLICATION: US/10/588,124**

**DATE: 08/10/2006**

**TIME: 11:01:31**

**Input Set : A:\L7350.0010 SEQUENCE LISTING.txt**

**Output Set: N:\CRF4\08102006\J588124.raw**

**L:11 M:270 C: Current Application Number differs, Replaced Current Application No**  
**L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date**